

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-2 – cancelled.

3. (Currently Amended) A method according to claim 2 of installing a network device in a packet-based data communication network and checking the authenticity of the installation, said method comprising:
- (a) communicating identification information of the device to a management system;
  - (b) installing said device;
  - (c) obtaining from a protocol address administrator a protocol address for said device;
  - (d) conducting a key agreement protocol exchange between said device and said management system to establish a set of encryption keys;
  - (e) using said set of encryption keys to provide mutual authentication by said device and said management system;
  - (f) associating, within said management system, the time of said exchange in step (d) with said identification information and the protocol address of the device;
  - (g) communicating from said management system to said administrator a message including said identification information, said protocol address and said time;

wherein, after said step (f) said management system produces further encryption keys for subsequent communications between said management system and said device; and

wherein said management system sends to said device a reset key enabling reiteration of a key agreement protocol exchange corresponding to step (e)(d).

2 ~~4.~~ (Currently Amended) A method ~~according to as~~ in claim ~~4~~<sup>1</sup> and further comprising periodically sweeping through all addresses available to said management system and comparing said addresses with addresses of devices compiled by means of step (f)(e).

3 ~~5.~~ (Currently Amended) A method ~~according to as~~ in claim ~~4~~<sup>1</sup> wherein said identification information includes a revealed encryption key.

4 ~~6.~~ (Currently Amended) A method ~~according to as~~ in claim ~~5~~<sup>3</sup> wherein said device has stored therein a manufactured encryption key which is related to said revealed encryption key.